

Purchase Order Receipt Listing

Friday, April 11, 2014 7:16:30 AM

All amounts are calculated in domestic currency.

All Vendors PO ID po23537 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID/Vendor Name PO23537 CAD	1		M174PH- H900R0.500	f	4/4/2014	4/10/2014	24.2917	\$7.61	0.0000	0	\$184.80
	No		17-4SS H900 ROUND BAR 0.500	f	24.0000	DESI02		\$184.80	0.0000	0	
			M128809								
	2		M174PH- H900R0.750	f	4/4/2014	4/10/2014	24.3958	\$9.47	0.0000	0	\$231.06
	No		17-4 SS H900 ROUND BAR 0.750"	f	24.0000	DESI02		\$231.06	0.0000	0	
			M128809								
	3		M174PH- H900R1.500	f	4/4/2014	4/10/2014	37.7083	\$20.07	0.0000	0	\$756.92
	No		17-4SS H900 ROUND BAR 1.500	f	36.0000	DESI02		\$756.92	0.0000	0	
			M128809								
	4		M174PH- H900R2.000	f	4/4/2014	4/10/2014	24.6458	\$35.08	0.0000	0	\$864.58
	No		17-4SS H900 ROUND BAR 2.000	f	24.0000	DESI02		\$864.58	0.0000	0	
			M128809								
	5		71401-45 PROCUREMENT QUALITY CLAUSES		4/4/2014	4/10/2014	1.0000	\$0.00	0.0000	0	\$0.00
	No		M128809		1.0000	DESI02		\$0.00	0.0000	0	

Total Received Quantity: 112.0416
Total Qty to Inspect (PO U/M): 0.0000
Total Reject Quantity: 0.0000
Total Receipt Value: \$2,037.37
Total Balance Due Quantity: 0.0000



Castle Metals®

A. M. Castle & Co.

COPIE

BORDEAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

Page 1 of 2

No de Formulaire d'Emballage / Pack Slip No: 1690543

Expédié de / Ship From:		Vendu à / Sold To:		Expédié à / Ship To:		Livré à / Deliver To:			
A. M. Castle & Co. (Canada) Inc. Toronto 2150 Argenta Road MISSISSAUGA, ON L5N 2K7		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA		METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA			
Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms		Transporteur / Carrier		No du Bon de connaissance / BOL No		No de livraison / Delivery No	
03-APR-2014	ORIGIN	Prepaid		UPS		1698840		119582606	

Détails d'expédition / Shipment Details Destination finale / Final Destination Branch -

N° de commande / Order No		N° de ligne / Line No		N° d'article / Item No		Description							
3290327		2		14966.MO		0.7500.RD.17CR.4N1.STAINLESS.CF.SOL TR.COND A.132-0000-156.0000 CUT TO 146.375 IN () - CUT IN 4TH'S SPECIFICATIONS: ATTN MONTREAL: SHIP TO METCOR AMS 5643 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dataero.com							
N° de bon de commande / Purchase Order No		N° de pièces / Part Number		Qté commandée / Ordered Qty		Qté Facturée / Invoice Qty							
23537				2.00 PCS		24.3958 FT							
Détails / Details													
Usine / Mill		No de coulée / Heat Number		Code méc / Mech Id		Pièces / PCS		Largeur (Pouce) / Width (IN)		Longueur (Pouce) / Length (IN)		Qté expédiée / Shipped Qty (LBS)	
VALBRUNA		256490				2						36.5938	



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BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

Page 2 of 2

CORPORATION							
<p>Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.</p> <p>We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.</p> <p>Ce matériel a été reçu et inspecté par</p> <p>Reviewed by Authorized Castle Metals Representative:</p>							
		Date:		Name:			



Castle Metals®

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

COPIE

Page 1 of 2

No de Formulaire d'Emballage / Pack Slip No: 1690540

Expédié de / Ship From:		Vendu à / Sold To:		Expédié à / Ship To:		Livré à / Deliver To:		
A. M. Castle & Co. (Canada) Inc. Toronto 2150 Argenta Road MISSISSAUGA, ON L5N 2K7		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA		METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA		
Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms		Transporteur / Carrier		No du Bon de connaissance / BOL No		N° de livraison / Delivery No
03-APR-2014	ORIGIN	Prepaid		LTL		1698837		119582608

Détails d'expédition / Shipment Details	Destination finale / Final Destination Branch -
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N° de commande / Order No	N° de ligne / Line No	N° d'article / Item No	Description			
3290327	3	14976.MO	1.5000.RD.17CR-4NI.STAINLESS.CF.SOL TR.COND A.132.0000-156.0000 CUT TO 150.833331115 IN () - CUT IN 4TH'S SPECIFICATIONS: ATTN MONTREAL: SHIP TO METCOR AMS 5643 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com			
N° de bon de commande / Purchase Order No	Nbr° de pièces / Part Number	Qté commandée / Ordered Qty	Qté Facturée / Invoice Qty			
23537		3.00 PCS	37.7083 FT			
Détails / Details						
Usine / Mill	No de coulee / Heat Number	Code méc / Mech Id	Pièces / PCS	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty (LBS)
VALBRUNA	260151		3			226.6271

BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

CORPORATION

client ne peut être retourné pour crédit.

for credit.

Date:

Name:



Castle Metals®

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

COPIE

Page 1 of 2

No de Formulaire d'Emballage / Pack Slip No: 1690542

Expédié de / Ship From: A. M. Castle & Co. (Canada) Inc. Toronto 2150 Argenta Road MISSISSAUGA, ON L5N 2K7		Vendu à / Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Expédié à / Ship To: METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA		Livré à / Deliver To: METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA	
Date d'expédition / Date Shipped 03-APR-2014	F.O.B. ORIGIN	Modalités de transport / Freight Terms Prepaid	Transporteur / Carrier LTL	No du Bon de connaissance / BOL No 1698839	N° de livraison / Delivery No 119582607		

Détails d'expédition / Shipment Details								Destination finale / Final Destination Branch -			
N° de commande / Order No 3290327	N° de ligne / Line No 4	N° d'article / Item No 14981.MO	Description 2.0000.RD.17CR-4NI.STAINLESS.CF.SOL.TR.COND A-132-0000-156.0000 CUT TO 153.875 IN Ø - CUT IN 4TH'S SPECIFICATIONS: ATTN MONTREAL: SHIP TO METCOR AMS 5643 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com								
N° de bon de commande / Purchase Order No 23537			N° de pièces / Part Number			Qté commandée / Ordered Qty 2.00 PCS		Qté facturée / Invoice Qty 25.6458 FT			
Détails / Details											
Usine / Mill VALBRUNA	No de coulée / Heat Number 257635	Code mec / Mech Id	Pièces / PCS 2	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty (LBS) 273.8975					



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A. M. Castle & Co.

BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

Page 2 of 2

CORPORATION									
<p>Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.</p> <p>We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.</p> <p>Ce matériel a été reçu et inspecté par</p> <p>Reviewed by Authorized Castle Metals Representative:</p>									
								Date:	Name:

BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

Page 1 of 2

No de Formulaire d'Emballage / Pack Slip No:1690544

Détails d'expédition / Shipment Details	
Destination finale / Final Destination Branch -	

10 April 2014 10:50:50 AM



Castle Metals®

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

Page 2 of 2

essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.		
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description.		
Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.		
Ce matériel a été reçu et inspecté par		
Reviewed by Authorized Castle Metals Representative:	Date:	Name:

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Slab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cliant
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Item/Usine produce

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI13037321
Lieferanzeige/Packing list/B.L.

Ordine nr: 311004478 Stock - Canada
Bestel/You order/Commande

Certificato nr: MEST444351/2013/ 1
Prüfung/Test/Essai

Conferma ordine nr: EI13009446
Werkz/Our Order/Pel nr.

Marchio di Fabbrica:
Zeichen des Werksachverständigen
Trade mark
Sigle de l'usine productrice



Stato di fornitura: Hot rolled - COND. A Centerless Ground
Lieferzustand/Delivery state/Etat de livraison

Tipo di Elaborazione: E+AOD
Erneuerungsart/Marking process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Pointon de l'essayeur

Specifiche:
Anforderungen / Requirements / Exigences

3174-01 35 630 A
ASME SA564 2013 S17400 A (0)

(0) SECTION II PT.A 2013 EDITION

AMS 2303 F.
ASTM A564 2010 S17400 A

AMS 5643 S S17400 A

Qualità: 630
Werkstoff/Grade/Qualité

Marca: V174
Markenbezeichnung
Brand/Marque

Tolleranza: ASTM A484-11 TABLE 7
Toleranz / Allowance/Tolerance

Punzonatura: 630
Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descript. du produit	Dimensioni - In Abmessungen Dimension Dimension	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losn. Lot nr. Lot nr.
0040	Round	0,5000	144 / 148	261341		1.559	312807210

TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf Lieferbereitem produkt Test a l'etat de fourniture Prueba sobre el material así como entregado

TEST	Provetta/Probestab Specimen/Eprobestab Larg. diam. Spec. Bread. Diam. Diale Width Diam. Thickness Larg. diam. epais mm	°F	Posiz. Saggio Probestab Lage Position	Snervamento Streckgrenze Yield Stress Limite elastique Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite elastique	Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Einschnürung Reduction of area Striction RA %	Resilienza Kerbschlagenergie Impact Value Resilience	Durezza Härte Hardness Dureté HB
	Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max		-	-	175	-	-	-	363
A	12.7	68	L	133		159	8	48		344

TEST		min	max	
B	Delta Ferrite		5,0	1,0 %
B	RATINGS FREQUENCY		1,10	0
B	RATINGS SEVERITY		1,05	0

Sample cond. H900

Sample cond. H900												
Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooler Refroidissement	Permanenza Haltezeit Retention Maintien	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooler Refroidissement	Permanenza Haltezeit Retention Maintien	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooler Refroidissement	Permanenza Haltezeit Retention Maintien	
Aging	900 °F	AIR	60									
TEST	Provetta/Probestab Specimen/Eprobestab Larg. diam. Spec. Bread. Diam. Diale Width Diam. Thickness Larg. diam. epais mm	°F	Posiz. Saggio Probestab Lage Position 1)	Snervamento Streckgrenze Yield Stress Limite elastique Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite elastique	Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %		Strizione Einschnürung Reduction of area Striction RA %		Resilienza Kerbschlagenergie Impact Value Resilience	Durezza Härte Hardness Dureté HB
	Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max		170	-	190	-	10	-	40	-	388
												444
												430
B	12,5	68	L	190		205		18				

1) L=longitudinale/long. T=transversale/quer, O=Tangenziale/tangentiel

Mechanical properties according to ASTM A370.
Delta Ferrite according to AMS 2315.

Vicenza, 24/02/14 VCO008 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkssachverständiger / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Bestell-/Purchaser/Clien:
VALBRUNA CANADA LTD
8724 HOLLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Name/Usine producer

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI13037321
Lieferanzeige/Packing list/B.L.

Ordine nr: 311004478 Stock - Canada
Bestell/Your order/Commande

Certificato nr: MEST444351/2013/ 1
Prüfung/Test/Essai

Conferma ordine nr: EI13009446
Werkz/Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine productrice



Stato di fornitura: Hot rolled - COND. A Centerless Ground
Lieferzustand/Delivery state/Etat de livraison

Tipo di Elaborazione: E+AOD
Erschmelzungsart/Melting process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Pointon de l'essayeur



Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata Heat Schmelze/Coulée	min - max 0,070	1,00	1,00	15,00 17,50	0,50	3,00 5,00	3,00 5,00	0,040	0,030	-	-	-	-	-	-
261341	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	P %	S %	Ta %	-	-	-	-	-
	0,044	0,43	0,47	15,12	0,15	3,23	4,58	0,025	0,001	0,0001	-	-	-	-	-
Colata Heat Schmelze/Coulée	min 5°C max 0,450	0,150 0,450	-	-	-	-	-	-	-	-	-	-	-	-	-
261341	Cb(Nb)%	Nb+Ta%	-	-	-	-	-	-	-	-	-	-	-	-	-
	0,274	0,274	-	-	-	-	-	-	-	-	-	-	-	-	-

Reduction ratio > 3 : 1

Annealing temperature 1904 deg. F for 1 h , air
cool to below 90F.

Macroetch test per ASTM E340: acceptable.

Material annealed 1070C for 0,5h min/air cooled.

Furnace calibrated according to AMS-H-6875;A;APRIL 2006

Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind i. d. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été fourni conforme aux exigences

Controllo antimescolanza: OK
Verwechslungsprüfung: spezialanalytisch durchgeführt
Antimixing testing performed: OK
Contrôle antimeslange fait: i. a. s.

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks: satisfactory
Contrôle visuel et dimensions: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TUEV and LLOYD'S

Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 24/02/14
VCC0008
(Mod. MCE2)

Il collaudatore di stabilimento / der Werksachverständiger / Works Inspector / L' agent d' usine

M. Rizzotto

Pagina - 2 di 2

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cient
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Item/Usine producer

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI12022059
Lieferanz/Packing list/V.L.

Certificato nr: MEST226048/2012/ 1
Prüfung/Test/Essai

Conferma ordine nr: E112005895
Werkz/Ordre/Ref. nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine productrice



Stato di fornitura: Hot rolled Polished Annealed Peeled
Lieferzustand/Delivery state/Etat de livraison

Tipo di Elaborazione: E+AOD
Erzeugnisart/Meiing process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Poligon de l'essayeur

Specifiche:
Anforderungen / Requirements / Exigences
VAL CANADA 2 630 A
ASTM A564 2010 S17400

AMS 5643 R S17400
AMS 2303 F C-0,25

ASME SA564 2010 S17400 (0)

(0) SEC.II PT.A 2010 EDITION ADD. 2011a

Qualität: 630
Werkstoff/Grade/Qualité

Marca: V174
Markenbezeichnung/Brand/Numéro

Punzonatura: 630
Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Description du produit	Dimensioni - In Abmessungen Dimension Dimension	Tolleranza Tolérance Allowance Tolerance	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0020	Round	2,0000	484-11	144 / 155	257635		4.330	133204350

TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf lieferbarem produkt test a l'etat de fourniture Prueba sobre el material así como entregado

TEST	Proveita/Probestab Specimen/Eprobestab Larg diam. Spec. Bredia Diam. Dicks Width Diam. Thickness Larg. diam. épais mm	°F	Poziz. Saggio Pozition Location Position	Snervamento Bruchgrenze Yield Stress Limite élastique	Snervamento Bruchgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction	Allungamento Bruchdehnung Elongation Allongement	Strizione Bruchdehnung Reduction of area Striction	Resistenza Kerbschlagarbeit Impact Value Résistance	Durezza Härte Hardness Dureté HB
	Valori richiesti 1 Anforderungen/Required value Valeurs demandées	min max		-	-	-	-	-	-	363
A										329

TEST		min	max
A	Delta Ferrite		5,0
A	RATINGS FREQUENCY		1,10
A	RATINGS SEVERITY		1,05

Sample cond. H900

Sample cond. H900												
Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature	Raffreddamento Abkühlung Cooler Refroidissement	Permanenza Haltezeit Retention Machzeit	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature	Raffreddamento Abkühlung Cooler Refroidissement	Permanenza Haltezeit Retention Machzeit	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature	Raffreddamento Abkühlung Cooler Refroidissement	Permanenza Haltezeit Retention Machzeit	
Aging	900 °F	AIR	60'									
TEST	Proveita/Probestab Specimen/Eprobestab Larg diam. Spec. Bredia Diam. Dicks Width Diam. Thickness Larg. diam. épais mm	° F	Poziz. Saggio Pozition Location Position	Snervamento Bruchgrenze Yield Stress Limite élastique Rp 0,2% k.s.l.	Snervamento Bruchgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.l.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Bruchdehnung Reduction of area Striction RA %	Resilienza Kerbschlagarbeit Impact Value Résistance	Durezza Härte Hardness Dureté HB		
	Valori richiesti 1 Anforderungen/Required value Valeurs demandées	min max		170	-	190	- 10	- 40	-	388 444		
B	12,5	68	L	182		199	16	52		429		

1) L=longitudinale/länge, T=transversale/quer, Q=Transversale/longitudinal

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Coulée	min - max 0,070	1,00	1,00	15,00 17,50	0,50	3,00 5,00	3,00 5,00	0,040	0,030	-	-	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	P %	S %	Ta %					
257635	0,035	0,45	0,49	15,08	0,19	3,37	4,52	0,025	0,001	0,0001					

Vicenza, 22/01/14
V00008
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 2

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchase/Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Item/Usine producer

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Aviso di Spedizione: D-VI12022059
Lieferanweisung/Packing list/B.L.

Ordine nr: 207003755 Stock - Canada
Bestel/Your order/Commande

Certificato nr: MEST226048/2012/ 1
Prüfung/Test/Essai

Confirma ordine nr: EI12005695
Works/Our Order/Reel nr.

Marchio di Fabbrica:
Zeichen des Lieferanten
Trade mark
Sigle de l'usine producteur



Stato di fornitura: Hot rolled Polished Annealed Peeled
Lieferzustand/Delivery state/Etat de livraison

Tipo di Elaborazione: E+AOD
Erschmelzungsart/Melting process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Plombon de l'essayeur



Colata / Heat Schmelze/Coulee	min 0,150 max 0,450	5°C 0,450					
257635	Nb%+Ta% 0,282	Cb(Nb)% 0,282					

Material solution annealed 1904F for 1.5 H,
air cooled to below 90F.
Macro etch test: satisfactory.
Produced without class I-II Ozone depleting substances.
Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind in Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été trouvé conforme aux exigences

Controllo antimiscelanza: OK
Verwechslungprüfung: spektralanalytisch durchgeführt
Anmixing testing performed: OK
Contrôle antimélange fait: r.s.s.

Controllo visivo e dimensionale: soddisfatta le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks satisfactory
Contrôle visuel et dimension: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TUEV and LLOYD'S
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 22/01/14

VCC008
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L' agent d' usine

M. Rizzotto

Pagina - 2 di 2

Acciaierie Valbruna s.p.a.



**CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1**

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: **STABILIMENTO DI BOLZANO**
Hersteller/Item/Usine producer

Stato di fornitura: Hot rolled Polished Annealed Peeled
Lieferzustand/Delivery state/Etat de livraison

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-BZ13004301
Lieferanzeige/Packing list/B.L.

Ordine nr: 301003993 Stock - Canada
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD
Erschmelzungs-/Melting process/Mode d'elaboration

Certificato nr: MEST381662/2013/ 1
Prüfung/Test/Essai

Conferma ordine nr: EI13000197
Werkz/Our Order/Ref nr.

Marchio di Fabbrica:
Zeichen des Werksachverständigen
Trade mark
Sigle de l'usine productrice

Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Poligon de l'assesseur



Specifiche:
Anforderungen / Requirements / Exigences

VAL CANADA 2 630 A
ASTM A564 2010 S17400

AMS 5643 R S17400
AMS 2303 F C<0,25

ASME SA564 2010 S17400 (0)

(0) SEC.II PT.A 2010 EDITION ADD. 2011a

Qualità: 630
Werkstoff/Grade/Nuance

Marca: V174
Markenbezeichnung/Brand/Usine

Punzonatura: 630
Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. Nr. de pos.	Oggetto Gegenstand Product description Descript. du produit	Dimensioni - in Abmessungen Dimension Dimension	Tolleranza Toleranz Allowance Tolerance	Lunghezza - in Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losn. Lot nr.
0030	Round	1,5000	484-11	146 / 151	260151		2.465	301105520

TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf lieferbarem produkt test à l'état de fourniture Prueba sobre el material así como entregado										
TEST	Provetta/Probesta Speichen/Eprouvette Long. diam. Spool Bore diam. Thickn. Weld diam. Thickness Long. diam. Spool mm	°F	Posiz. Saggio Auflage Lage Emplacement 1)	Snervamento Bruchgrenze Yield Stress Limite élastique	Snervamento Bruchgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction	Allungamento Bruchdehnung Elongation Allongement	Strizione Einziehdehnung Reduction of area Striction	Resilienza Kerbschlagwert Impact Value Resilience	Durezza Härte Hardness Dureté HB
	Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max		-	-					363
A										338

TEST		min	max
A	Delta Ferrite		5,0
A	RATINGS FREQUENCY		1,10
A	RATINGS SEVERITY		1,05

Sample cond. H900

Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooler Refroidissement	Permanenza Haltezeit Permanence Maintien	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooler Refroidissement	Permanenza Haltezeit Permanence Maintien	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooler Refroidissement	Permanenza Haltezeit Permanence Maintien
Aging	900 °F	AIR	80'								
TEST	Provetta/probesta Speichen/Eprouvette Long. diam. Spool Bore diam. Thickn. Weld diam. Thickn. Long. diam. Spool mm	°F	Posiz. Saggio Position Lieu Emplacement 1)	Snervamento Bruchgrenze Yield Stress Limite élastique Rp 0,2% k.s.i.	Snervamento Bruchgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Einziehdehnung Reduction of area Striction RA %	Resilienza Kerbschlagwert Impact Value Resilience %	Durezza Härte Hardness Dureté HB	
	Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max		170	-	190	-	10	-	388	
									40	-	444
									51		431
B	12.5	68	L	185		201	14				

1) L=longitudinale/Länge, T=transversale/quer, C=Transversale tangential

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata/Heat Schmelze/Coulée	min - max 0,070	1,00	1,00	15,00 17,50	0,50	3,00 5,00	3,00 5,00	0,040	0,030	-	-	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	P %	S %	Ta %					
260151	0,036	0,46	0,51	15,18	0,15	3,35	4,53	0,020	0,001	0,0015					

Bolzano, 22/01/14

8BL008
(Mod. MCE2)

Il collaudatore di stabilimento / der Werksachverständige / Works Inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 2

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Clien
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: **STABILIMENTO DI BOLZANO**
Hersteller/Usine produites

Stato di fornitura: Hot rolled Polished Annealed Peeled
Lieferzustand/Delivery state/Etat de livraison

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-BZ13004301
Lieferanzettel/Packing list/B.L.

Ordine nr: 301003993 Stock - Canada
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD
Erzschmelzungsart/Melting process/Mode d'elaboration

Certificato nr: MEST381662/2013/ 1
Prüfung/Test/Essai

Conferma ordine nr: EI13000197
Werkz/Our Order/Ref nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine produites



Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Poinçon de l'essayeur



Colata / Heat Schmelze/Coulée	min 0,150 max 0,450	5°C 0,460					
260151	Nb%+Ta% 0,297	Cb(Nb)% 0,295					

Material solution annealed 1904F for 1 H,
air cooled to below 90F.
Macro etch test: satisfactory.
Produced without class I-II Ozone depleting substances.
Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind z. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été trouvé conforme aux exigences

Controllo antimescolanza: OK
Verwechslungsprüfung: spektralanalytisch durchgeführt
Antimixing testing performed: OK
Controlle antimesclange fab: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional check: satisfactory
Contrôle visuel et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.
The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TUEV and LLOYD'S
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Bolzano, 22/01/14
BBL005
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L' agent d' usine
M. Rizzotto

Pagina - 2 di 2

Acciaierie Valbruna s.p.a.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Clienti / Besteller/Purchaser/Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: **STABILIMENTO DI BOLZANO**
Hersteller/Item/Usine producer

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-BZ12003970
Lieferungsgepäckung Ist/B.L.

Ordine nr: 204003642 Stock - Canada
Bestell/Your order/Commande

Certificato nr: MEST218040/2012/ 2
Prüfung/Test/Essai

Conferma ordine nr: E112003558
Werkz/Our Order/Ref. n.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Sigle de l'usine productrice



Stato di fornitura: Hot rolled - Annealed Peeled
Lieferzustand/Delivery state/Etat de livraison

Tipo di Elaborazione: E+AOD
Erzeugnisart/Manufact process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Poinçon de l'essayeur

Specifiche:
Anforderungen / Requirements / Exigences
VAL CANADA 2 630 A
ASTM A564 2010 S17400

AMS 5643 R S17400
AMS 2303 F C<0,25

ASME SA564 2010 S17400 (0)

(0) SEC.II PT.A 2010 EDITION ADD. 2011a

Qualità: 630 / UNS 17400
Werkstoff/Grade/Matériau

Marca: V174

Punzonatura: 630

Kennzeichnung/Marking/Marquage

Markenbezeichnung/Brand/Numéro

Pos. nr. Pos. Nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descrip. du produit	Dimensioni - In Abmessungen Dimension Dimension	Tolleranza Toleranz Allowance Tolerance	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0080	Round	0,7500	484-11	143 / 147	256490		2.035	132210550

TEST ALLO STATO DI FORNITURA										
Test on delivery condition Prüfung auf lieferbarem Produkt test à l'état de fourniture Prueba sobre el material así como entregado										
TEST	Provetta/Probierstab Speichen/Spinnstange Long diam. Spec. Bohle Diam. Dicke With Diam. Thickness Larg. diam. épaisseur mm	°F	Posiz. Saggio Position Lieu Empreinte 1)	Snervamento Biegegrenze Yield Stress Limite élastique	Snervamento Biegegrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction	Allungamento Bruchdehnung Elongation Allongement	Strizione Einengung Reduction of area Réduction	Resilienza Kerbschlagarbeit Impact Value Résilience	Durezza Härte Hardness Dureté HB
Valori richiesti 1 Anforderungen/Required values Valeurs demandées		min max								363
A										335

TEST	min	max
A Delta Ferrite		5,0
A RATINGS FREQUENCY		1,10
A RATINGS SEVERITY		1,05

Sample cond. H900												
Tipo Trattamento Wärmebehandlung Heat Treatment Traitement	Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooler Refroidissement	Permanenza Haltezeit Permanence Machzeit	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement	Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooler Refroidissement	Permanenza Haltezeit Permanence Machzeit	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement	Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooler Refroidissement	Permanenza Haltezeit Permanence Machzeit	
Aging	900 °F	AIR	60									
TEST	Provetta/Probierstab Speichen/Spinnstange Long diam. Spec. Bohle Diam. Dicke With Diam. Thickness Larg. diam. épaisseur mm	°F	Posiz. Saggio Position Lieu Empreinte 1)	Snervamento Biegegrenze Yield Stress Limite élastique Rp 0,2% k.s.i.	Snervamento Biegegrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Einengung Reduction of area Réduction %	RA %	Resilienza Kerbschlagarbeit Impact Value Résilience	Durezza Härte Hardness Dureté HB	
	Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max		170	-	190	- 10	-	40	-	388 444	
	B	12.5	68	L	183		202	15		51		432

1) L=longitudinale/Länge, T=transversale/quers, O=Transversale/tangentiel

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Heat Schmelze/Coulée	min - max	0,070	1,00	1,00	15,00 17,50	0,50	3,00 5,00	3,00 5,00	0,040	0,030	-	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	P %	S %	Ta %					
256490	0,036	0,40	0,51	15,16	0,24	3,40	4,48	0,024	0,001	0,0028					

Bolzano, 22/01/14 BBL008 (Mod. MCE2)	Il collaudatore di stabilimento / der Werksachverständige / Works Inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Buyer/Purchaser/Cient
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: **STABILIMENTO DI BOLZANO**
Hersteller/fabrik/Usine producteur

Stato di fornitura: Hot rolled - Annealed Peeled
Lieferzustand/Delivery state/Etat de livraison

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-BZ12003970
Lieferanzeige/Packing list/B.L.

Ordine nr: 204003642 Stock - Canada
Bestell./Your order/Commande

Tipo di Elaborazione: E+AOD
Erweiterungsart/Refining process/Mode d'elaboration

Certificato nr: MEST218040/2012/ 2
Prüfung/Test/Essai

Conferma ordine nr: EH2003558
Werkz./Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Uferwerkes
Trade mark
Sigle de l'usine producteur



Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Pointon de l'assesseur



Coef. Heat Schmelze/Coef. de	min 0,150 max 0,450	5°C 0,450					
256490	Nb%+Ta% 0,283	Cb(Nb)% 0,280					

Material solution annealed 1804F for 1 H,
air cooled to below 90F.
Macro etch test: satisfactory.
Produced without class I-II Ozone depleting substances.
Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind lt. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été fourni conforme aux exigences

Controllo antimiscelazione: OK
Verwechslungsprüfung: spektralanalytisch durchgeführt
Antimixing testing performed: OK
Contrôle antimélange (alt. i.s.s.)

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks satisfactory
Contrôle visuel et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TÜV and LLOYD'S

Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Bolzano, 22/01/14
BBL006
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L'agent d'usine
M. Rizzotto

Pagina - 2 di 2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT74PH-H900R0.50
 DATE: APR 23 2014

PO / BATCH NO.: 23537

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 8 X 3' -> 24 291
 QUANTITY INSPECTED: 8 X 3' -> 24 291
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .500"
 THICKNESS RECEIVED: .5025"
 SHEET SIZE ORDERED: /
 SHEET SIZE RECEIVED: /

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	N	
CORROSION	Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	N	ASTM A564 200
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	N	H# 261341
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	N	M128809
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION INSPECTED BY: <u>27 9-89</u> DATE: <u>11/14/23</u>	ENGINEERING SIGNOFF (if required) SIGNED OFF BY: _____ DATE: _____
--	---

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M174PH H9020.750

PO / BATCH NO.: 2BS37

DATE: APR 23 2014

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 8X3' → 24.395'
 QUANTITY INSPECTED: 8X3' → 24.395'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: /
 SHEET SIZE RECEIVED: /

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	ASTM 5643
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	HT 256490
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	M12X809
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>27</u> <u>9-89</u> <u>11/1/23</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT4PH-H000 R1.500

PO / BATCH NO.: 23537

DATE: APR 23 2014

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.500

QUANTITY RECEIVED: 37.708

THICKNESS RECEIVED: 1.503

QUANTITY INSPECTED: 37.708

SHEET SIZE ORDERED: /

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: /

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT REF # TO LINK CERT	Y	N	<u>AMS SUB</u>
CORRECT MATERIAL IDENTIFICATION	Y	N	<u># 260151</u>
CORRECT M# ON THE MATERIAL	Y	N	<u>m128809</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 27</u> DATE: <u>4/23</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT4PH-400R2.000
 DATE: APR 23 2016

PO / BATCH NO.: 28537

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24.645
 QUANTITY INSPECTED: 24.645
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.000
 THICKNESS RECEIVED: 2.0015
 SHEET SIZE ORDERED: /
 SHEET SIZE RECEIVED: /

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	AMS 5643
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	H# 257635
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	M128803
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>4/14/23</u> DATE: <u>4/14/23</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23537

Purchase Order Date 3/27/2014

PO Print Date 3/27/2014

Page Number 1 of 5

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FOXP
10/14/03/27

Contact Name
Vendor Phone 514 694 9575

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 10
Currency CAD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M174PH-H900R0.500	17-4SS H900 ROUND BAR 0.500	4/4/2014 Yes 4/4/2014		24.00 f 24.2917	\$8.41	\$201.84

MATERIAL: 17-4 PH COND. H900
AS PER AMS 5643

NOTE:
PLEASE SHIP MATERIAL TO METCOR INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

10/14/10

Line Total:

\$201.84

Note:

3/27/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23537

Purchase Order Date 3/27/2014

PO Print Date 3/27/2014

Page Number 2 of 5

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 514 694 9575

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 10
Currency CAD
FOB FCA - (Free Carrier)

2	M174PH-H900R0.750	17-4 SS H900 ROUND BAR 0.750"	4/4/2014	24.00	✓	\$10.47	\$251.28
			No 4/4/2014				

MATERIAL: 17-4 PH COND. H900
AS PER AMS 5643

NOTE:
PLEASE SHIP MATERIAL TO METCOR INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

24.3958
Puy/4/10

Line Total: \$251.28

Note:

3/27/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23537**

Purchase Order Date 3/27/2014

PO Print Date 3/27/2014

Page Number 3 of 5

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 514 694 9575

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 10

Currency

CAD

FOB

FCA - (Free Carrier)

3	M174PH-H900R1.500	17-4SS H900 ROUND BAR 1.500	4/4/2014	36.00	\$22.19	\$798.84
			Yes 4/4/2014			

MATERIAL: 17-4 PH COND. H900
AS PER AMS 5643

NOTE:
PLEASE SHIP MATERIAL TO METCOR INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

f 37-7083

6/4/14

Line Total:

\$798.84

Note:

3/27/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23537**

Purchase Order Date 3/27/2014

PO Print Date 3/27/2014

Page Number 4 of 5

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 514 694 9575

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Customer POID

Customer Tax # 10127-2607

Terms Net 10

Currency CAD

FOB FCA - (Free Carrier)

Chantal Lavoie

4	M174PH-H900R2.000	17-4SS H900 ROUND BAR 2.000	4/4/2014	24.00	\$38.78	\$930.72
			Yes	f 24.6408		
			4/4/2014			

MATERIAL: 17-4 PH COND. H900
AS PER AMS 5643

NOTE:
PLEASE SHIP MATERIAL TO METCOR INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

Line Total: \$930.72

5	71401-45	PROCUREMENT QUALITY CLAUSES	4/4/2014	1.00	\$0.00	\$0.00
			No			
			4/4/2014			

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

Note:

3/27/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23537**

Purchase Order Date 3/27/2014

PO Print Date 3/27/2014

Page Number 5 of 5

Order From :

VC-MET001

METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 514 694 9575

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 10

Currency CAD

FOB FCA - (Free Carrier)

Line Total: \$0.00

PO Total: \$2,182.68

Handwritten signature and initials

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

2

Change Date: 3/27/2014

Page 1 of 1

All amounts are calculated in domestic currency.

ALL Vendors	PO ID PO23538	Receipt Dates from 4/16/2014 to 4/16/2014	All Line Item Types
-------------	---------------	---	---------------------

All Vendors	All Rec.	Employees	All Currencies
All Item ID/GL/WOs			

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Receiv Date/ Receiv Emp	Receiv Qty (PO U/M)	Cost Per Unit/ Receiv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID	Vendor Name	VC-MET004	Metcor Inc.								
PO23538	1	71425-30	Each		4/18/2014	4/16/2014	1.0000	\$513.67	0.0000	0	\$513.67
CAD	No	HEAT TREAT MATERIAL TO H900			1.0000	DES102		\$513.67	0.0000	0	
<div> <div>Total Received Quantity:</div> <div>1.0000</div> </div> <div> <div>Total Qty to Inspect (PO U/M):</div> <div>0.0000</div> </div> <div> <div>Total Reject Quantity:</div> <div>0.0000</div> </div> <div> <div>Total Receipt Value:</div> <div>\$513.67</div> </div> <div> <div>Total Balance Due Quantity:</div> <div>0.0000</div> </div>											

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ
ST-EUSTACHE, QC J7R 5A8
Tel: 450-473-1884 / Fax: 450-491-5498

Reçu de livraison

Delivery Receipt

BON DE TRAVAIL Order	EXPÉDITEUR Shipper ID	BON D'EXPÉDITION Shipper
194748	1	80453

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT /Customer 215

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

LIVRÉ À /Shipped To

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

COMMANDE DU CLIENT Customer PO	BON DE LIVRAISON DU CLIENT Customer Shipper No.	TYPE DE MATÉRIEL Material Type	DATE DE LA COMMANDE Order Date	TRANSPORTEUR Carrier
PO23537		7-4 PH AMS 534	2014/4/4	TST

QUANTITÉ Quantity	No. PIÈCE / Part No.	NOM DE LA PIÈCE / Part Name	DESCRIPTION DE LA PIÈCE Part Description	POIDS Weight
----------------------	-------------------------	--------------------------------	---	-----------------

12 M174PH-H900R1.500
(12) M174PH-H900R1.500
BAR ROUND 1.500

224,

1 PALETTE

TYPE DE CONTENEUR Container Type	# DE CONTENEURS # Of Containers	COMMENTAIRES CONTENEUR Container Comments
PALETTE	1	

EMPAQUETAGE Packing	
------------------------	--

QUANTITÉ EXPÉDIÉE / Quantity Shipped : 12
POIDS EXPÉDIÉ / Weight Shipped : 224,00
QUANTITÉ RESTANTE / Quantity Remaining : 0
POIDS RESTANT / Weight Remaining : 0,00

Signature:

[Signature]

Date:

EXPÉDIÉ LE / Shipped On : 2014/04/10

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ
ST-EUSTACHE, QC J7R 5A8
Tel: 450-473-1884 / Fax: 450-491-5498

Reçu de livraison

Delivery Receipt

BON DE TRAVAIL Order	EXPÉDITEUR Shipper ID	BON D'EXPÉDITION Shipper
194745	1	80454

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT /Customer 215

DART AEROSPACE

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

LIVRÉ À /Shipped To

DART AEROSPACE

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

COMMANDE DU CLIENT Customer PO	BON DE LIVRAISON DU CLIENT Customer Shipper No.	TYPE DE MATÉRIEL Material Type	DATE DE LA COMMANDE Order Date	TRANSPORTEUR Carrier
23537		17-4PH	2014/4/4	PUROLETTER

QUANTITÉ Quantity	No. PIÈCE / Part No.	NOM DE LA PIÈCE / Part Name	DESCRIPTION DE LA PIÈCE Part Description	POIDS Weight
8	M174PH-H900R0.750			36,
	(8) M174PH-H900R0.750			
	BAR ROUND 0.750			
1	NIL			

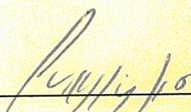
TYPE DE CONTENEUR Container Type	# DE CONTENEURS # Of Containers	COMMENTAIRES CONTENEUR Container Comments
NIL	1	

EMPAQUETAGE Packing	
------------------------	--

QUANTITÉ EXPÉDIÉE / Quantity Shipped : 8
POIDS EXPÉDIÉ / Weight Shipped : 36,00
QUANTITÉ RESTANTE / Quantity Remaining : 0
POIDS RESTANT / Weight Remaining : 0,00

QUANTITÉ EXPÉDIÉE /Quantity Shipped:	8
POIDS EXPÉDIÉ / Weight Shipped :	36,00

Signature:



Date:

EXPÉDIÉ LE / Shipped On : 2014/04/10

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ
ST-EUSTACHE, QC J7R 5A8
Tel: 450-473-1884 / Fax: 450-491-5498

Reçu de livraison

Delivery Receipt

BON DE TRAVAIL Order	EXPÉDITEUR Shipper ID	BON D'EXPÉDITION Shipper
194747	1	80456

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT /Customer 215

DART AEROSPACE

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

LIVRÉ À /Shipped To

DART AEROSPACE

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

COMMANDE DU CLIENT Customer PO	BON DE LIVRAISON DU CLIENT Customer Shipper No.	TYPE DE MATÉRIEL Material Type	DATE DE LA COMMANDE Order Date	TRANSPORTEUR Carrier
23537 538		17-4PH	2014/4/4	TST

QUANTITÉ Quantity	No. PIÈCE / Part No.	NOM DE LA PIÈCE / Part Name	DESCRIPTION DE LA PIÈCE Part Description	POIDS Weight
----------------------	-------------------------	--------------------------------	---	-----------------

8 M174PH-H-900R2.000
(8) M174PH-H900R2.00
BAR ROUND 2.000

272,

1 PALETTE

TYPE DE CONTENEUR Container Type	# DE CONTENEURS # Of Containers	COMMENTAIRES CONTENEUR Container Comments
PALETTE	1	

EMPAQUETAGE Packing	
------------------------	--

QUANTITÉ EXPÉDIÉE / Quantity Shipped : 8

POIDS EXPÉDIÉ / Weight Shipped : 272,00

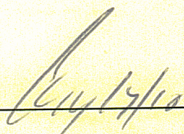
QUANTITÉ RESTANTE / Quantity Remaining : 0

POIDS RESTANT / Weight Remaining : 0,00

QUANTITÉ EXPÉDIÉE /Quantity Shipped: 8

POIDS EXPÉDIÉ / Weight Shipped : 272,00

Signature:



Date:

EXPÉDIÉ LE / Shipped On : 2014/04/10



Metcor Inc.

5601, boul. Arthur-Sauvé, St-Eustache (Québec) J7R 5A8
Tél: 450-473-1884

Télécopieur/Fax administration: 450-491-5498
Télécopieur/Fax production: 450-491-6454

5601, BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450-491-6454

Rapport d'Inspection

Inspection Report

BON DE TRAVAIL order	CHARGEMENT load
194747	1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K8A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K8A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
23537		17-4PH		

SPÉCIFICATIONS DU PROCÉDÉ processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 5643 REV. R

EXIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	8	45.0 - 46.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
8	272	M174PH-H-900R2.000 (8) M174PH-H900R2.00 BAR ROUND 2.000 1 PALETTE

COMMENTAIRES / comments

15/04/2014

APPROUVÉ par / Approved by:



DATE: 2014-04-10

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ
ST-EUSTACHE, QC J7R 5A8
Tel: 450-473-1884 / Fax: 450-491-5498

Reçu de livraison

Delivery Receipt

BON DE TRAVAIL Order	EXPÉDITEUR Shipper ID	BON D'EXPÉDITION Shippér
194746	1	80455

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT /Customer 215

DART AEROSPACE

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

LIVRÉ À /Shipped To

DART AEROSPACE

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

COMMANDE DU CLIENT Customer PO	BON DE LIVRAISON DU CLIENT Customer Shipper No.	TYPE DE MATÉRIEL Material Type	DATE DE LA COMMANDE Order Date	TRANSPORTEUR Carrier
23537		17-4PH	2014/4/4	PUROLETTER

QUANTITÉ Quantity	No. PIÈCE / Part No.	NOM DE LA PIÈCE / Part Name	DESCRIPTION DE LA PIÈCE Part Description	POIDS Weight
----------------------	-------------------------	--------------------------------	---	-----------------

8 M174PH-H900R0.500
(8) M174PH-H900R0.500

16,

BAR ROUND 0.500

1 NIL

TYPE DE CONTENEUR Container Type	# DE CONTENEURS # Of Containers	COMMENTAIRES CONTENEUR Container Comments
NIL	1	

EMPAQUETAGE Packing	
------------------------	--


QUANTITÉ EXPÉDIÉE / Quantity Shipped : 8

POIDS EXPÉDIÉ / Weight Shipped : 16,00

QUANTITÉ RESTANTE / Quantity Remaining : 0

POIDS RESTANT / Weight Remaining : 0,00

Signature:

 14/5/18

Date:

QUANTITÉ EXPÉDIÉE /Quantity Shipped: 8

POIDS EXPÉDIÉ / Weight Shipped : 16,00

EXPÉDIÉ LE / Shipped On : 2014/04/10



Metcor Inc.

5601, rue Arthur-Sauvé, St-Eustache (Québec) J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450-491-6454

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450-491-6454

Rapport d'Inspection

Inspection Report

BON DE TRAVAIL order	CHARGEMENT load
194748	1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K8A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K8A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
PO23537		17-4 PH AMS 5343		

SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 5843 REV. R

EXIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	12	45.0 - 46.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
12	224	M174PH-H900R1.500 (12) M174PH-H900R1.500 BAR ROUND 1.500 1 PALETTE

COMMENTAIRES / comments

15/04/2014

APPROUVÉ par / Approved by:

DATE: 2014-04-10



Metcor Inc.

5601 Boul. Arthur-Sauvé, St-Eustache (Québec) J7R 5A8
Tél: 450-473-1884

Télécopieur/Fax administration: 450-491-5498

Télécopieur/Fax production: 450-491-6454

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450-491-6454

Rapport d'Inspection

Inspection Report

BON DE TRAVAIL order	CHARGEMENT load
194745	1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
23537		17-4PH		

SPÉCIFICATIONS DU PROCÉDÉ processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 5643 REV. R

EXIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	8	44.0 - 45.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
8	38	M174PH-H900R0.750 (8) M174PH-H900R0.750 BAR ROUND 0.750 1 NIL

COMMENTAIRES / comments

15/04/2014

APPROUVÉ par / Approved by:

DATE: 2014-04-10



Metcor Inc.

560, boul. Arthur-Sauvé, St-Eustache (Québec) J7R 5A8
Tél. 450-473-1884

Télécopieur/Fax administration 450-491-5498
Télécopieur/Fax production 450-491-6454

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450-491-6454

Rapport d'Inspection

Inspection Report

BON DE TRAVAIL order	CHARGEMENT load
194746	1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K8A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K8A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
23537		17-4PH		

SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 5643 REV. R

EXIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	8	44.0 - 45.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
8	16	M174PH-H900R0.500 (8) M174PH-H900R0.500 BAR ROUND 0.500 1 NIL

COMMENTAIRES / comments

15/04/2014

APPROUVÉ par / Approved by

DATE: 2014-04-10

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

Certificat de Conformité Détaillé

Detailed Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
194746	1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
23537		17-4PH		
<div>SPÉCIFICATIONS DU PROCÉDÉ</div> <div>processing specifications</div>				
AGE HARDEN CONDITION H 900 SAE AMS 5643 REV. R				
EXIGENCE / requirement	SPÉCIFICATIONS / specified		TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC		8	44.0 - 45.0 HRC
QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description		
8	16	M174PH-H900R0.500 (8) M174PH-H900R0.500 BAR ROUND 0.500 1 NIL		

COMMENTAIRES / comments

AGE HARDEN 900F, 1HR

Le traitement thermique (TT) a été fait en utilisant des équipements en conformité avec la spécification demandée. Toutes les opérations de TT ont été faites en conformité avec les requis de la spécification demandée et toutes les vérifications et les tests demandés ont été faites et documentés. Aucun changement n'a été faite par rapport au TT. On certifie que le matériel a été fabriqué, échantillonné, testé et inspecté en accord avec les spécifications du matériel et le bon de commande et le matériel rencontre les exigences spécifiées.

Heat treatment (HT) was performed with equipment that meets the requirements of requested specification. All HT operations were performed in compliance with the required HT specification and all verifications have been performed and documented. No unauthorized changes were performed in regards to the HT. We certify that the material was manufactured, sampled, tested and inspected in accordance with the material specification and the purchase order and was found to meet the requirements.

APPROUVÉ par / Approved by:

Vincent Caron

MET
18

DATE: 2014-04-11

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

Certificat de Conformité Détaillé

Detailed Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
194747	1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
23537		17-4PH		
<div>SPÉCIFICATIONS DU PROCÉDÉ</div> <div>processing specifications</div>				
AGE HARDEN CONDITION H 900 SAE AMS 5643 REV. R				
EXIGENCE / requirement	SPÉCIFICATIONS / specified		TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC		8	45.0 - 46.0 HRC
QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description		
8	272	M174PH-H-900R2.000 (8) M174PH-H900R2.00 BAR ROUND 2.000 1 PALETTE		

COMMENTAIRES / comments

AGE HARDEN 900F, 1HR

Le traitement thermique (TT) a été fait en utilisant des équipements en conformité avec la spécification demandée. Toutes les opérations de TT ont été faites en conformité avec les requis de la spécification demandée et toutes les vérifications et les tests demandés ont été faites et documentés. Aucun changement n'a été faite par rapport au TT. On certifie que le matériel a été fabriqué, échantillonné, testé et inspecté en accord avec les spécifications du matériel et le bon de commande et le matériel rencontre les exigences spécifiées.

Heat treatment (HT) was performed with equipment that meets the requirements of requested specification. All HT operations were performed in compliance with the required HT specification and all verifications have been performed and documented. No unauthorized changes were performed in regards to the HT. We certify that the material was manufactured, sampled, tested and inspected in accordance with the material specification and the purchase order and was found to meet the requirements.

APPROUVÉ par / Approved by:

Vincent Conetta

MET
18

DATE: 2014-04-11

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

Certificat de Conformité Détaillé

Detailed Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
194745	1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
23537		17-4PH		
SPÉCIFICATIONS DU PROCÉDÉ processing specifications				
AGE HARDEN CONDITION H 900 SAE AMS 5643 REV. R				
EXIGENCE / requirement	SPÉCIFICATIONS / specified		TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC		8	44.0 - 45.0 HRC
QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description		
8	36	M174PH-H900R0.750 (8) M174PH-H900R0.750 BAR ROUND 0.750 1 NIL		

COMMENTAIRES / comments

AGE HARDEN 900F, 1HR

Le traitement thermique (TT) a été fait en utilisant des équipements en conformité avec la spécification demandée. Toutes les opérations de TT ont été faites en conformité avec les requis de la spécification demandée et toutes les vérifications et les tests demandés ont été faites et documentés. Aucun changement n'a été faite par rapport au TT. On certifie que le matériel a été fabriqué, échantillonné, testé et inspecté en accord avec les spécifications du matériel et le bon de commande et le matériel rencontre les exigences spécifiées.

Heat treatment (HT) was performed with equipment that meets the requirements of requested specification. All HT operations were performed in compliance with the required HT specification and all verifications have been performed and documented. No unauthorized changes were performed in regards to the HT. We certify that the material was manufactured, sampled, tested and inspected in accordance with the material specification and the purchase order and was found to meet the requirements.

APPROUVÉ par / Approved by:

Vincent Contois

MET
18

DATE: 2014-04-11

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

Certificat de Conformité Détaillé

Detailed Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
194748	1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
PO23537		17-4 PH AMS 5343		
SPÉCIFICATIONS DU PROCÉDÉ processing specifications				
AGE HARDEN CONDITION H 900 SAE AMS 5643 REV. R				
EXIGENCE / requirement		SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS		40 - 47 HRC	12	45.0 - 46.0 HRC
QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description		
12	224	M174PH-H900R1.500 (12) M174PH-H900R1.500 BAR ROUND 1.500 1 PALETTE		

COMMENTAIRES / comments

AGE HARDEN 900F, 1HR

Le traitement thermique (TT) a été fait en utilisant des équipements en conformité avec la spécification demandée. Toutes les opérations de TT ont été faites en conformité avec les requis de la spécification demandée et toutes les vérifications et les tests demandés ont été faites et documentés. Aucun changement n'a été faite par rapport au TT. On certifie que le matériel a été fabriqué, échantillonné, testé et inspecté en accord avec les spécifications du matériel et le bon de commande et le matériel rencontre les exigences spécifiées.

Heat treatment (HT) was performed with equipment that meets the requirements of requested specification. All HT operations were performed in compliance with the required HT specification and all verifications have been performed and documented. No unauthorized changes were performed in regards to the HT. We certify that the material was manufactured, sampled, tested and inspected in accordance with the material specification and the purchase order and was found to meet the requirements.

APPROUVÉ par / Approved by:

Vincent Caron

MET
18

DATE: 2014-04-11



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23538

Purchase Order Date 3/27/2014

PO Print Date 4/15/2014

Page Number 1 of 1

Order From : VC-MET004

METCOR INC.
560 BOUL. ARTHUR SAUVE
SAINT-EUSTACHE, QC J7R 5A8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 450 473 1884

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

REVISED

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	71425-30	HEAT TREAT MATERIAL TO H900	4/18/2014 Yes 4/18/2014		1.00 Each	\$567.84	\$567.84
Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A020 non-destructive test/inspection identification A021 dart aerospace processing A024 process certifications A026 certification of material conformance 17-4 PH ROUND BAR .500" / .750" / 1.5" / 2" SENT FROM METAUX CASTLE P/O:23537 FINISH: HEAT TREAT TO COND H900 FTY IN EXCESS OF 170KSI FTU IN EXCESS OF 190KSI PER AMS2759/3 PLEASE ADVISE PRICE \$\$\$\$\$\$ FOR LOT							

Line Total: \$567.84

PO Total: \$567.84

CL

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 3

Change Date: 4/15/2014